220736A,B Internal Auxiliary Switches

220736A,B Internal Auxiliary Switch kits can be installed in TRADELINE models of Modutrol IV Motors to control auxiliary equipment as a function of motor shaft position.



- The 220736A includes one Spdt Micro Switch V3 precision switch.
- The 220736B includes two Spdt Micro Switch V3 precision switches.
- Either kit can be installed in any Tradeline Modutrol IV Motor.
- Kits provide switch mounting bracket for easy installation internal to motor.
- The auxiliary switches are actuated by adjustable cams inside the motor. These cams can be set to

actuate the switches at any angle within the stroke of the motor. Only Modutrol IV TRADELINE models are equipped with the cam assemblies for actuating field-addable auxiliary switches. Switch adjustment procedures are the same as that for switches that come factory installed in Modutrol IV Motor models.

- Switch differentials of 1° or 10° can be selected.
- Leadwires color coded to ease correct wiring of auxiliary equipment.

CONTENTS

Specifications	2
Ordering Information	
Installation	
Setting and Adjustments	6
Checkout	

Specifications

MODELS: 220736A,B Internal Auxiliary Switches for TRADELINE Modutrol IV Motors. Switches are actuated by cams in the motor. The cams can be set to operate the switches at any point in the motor stroke. 220736A—Includes one Spdt Micro Switch V3 snap acting switch, mounted on left side and operated by outer cam.

220736B—Includes two Spdt Micro Switch V3 snap acting switches.

SWITCH DIFFERENTIAL (difference between switch make and break points): Approximately 1 or 10 degrees, determined by cam setting.

MOUNTING: Switches factory-installed on bracket designed for mounting inside motor.

WIRING: Color-coded, 15 in. [381 mm] leadwires.

ELECTRICAL RATINGS:

One Contact ^a	120 V	240 V
Full Load	7.2	3.6
Locked Rotor	43.2	21.6

^a40 VA pilot duty, 120/240 Vac on opposite contact.

Installation



CAUTION

Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

NOTE: The wire colors of the 220736A,B auxiliary switches are different from those of factory installed auxiliary switches. See Tables 1-3 and Fig. 2.

1. When replacing a Modutrol motor determine origi-

nal motor model number and refer to Tables 1-3.

- 2. From the appropriate table, determine switch leadwire color coding and configuration (N.O. and N.C. contacts).
- 3. For wiring convenience, make note of the difference between the replaced motor and field addable switch color coding.
 - 4. Disconnect and remove the motor to be replaced.
- 5. Remove the cover from the wiring box of the TRADELINE Modutrol IV motor.
- 6. Check motor for proper stroke setting. Adjust stroke as needed. Refer to motor specification sheet.
- 7. Position the switch assembly above the motor as shown in Fig. 1.

Ordering Information

When purchasing replacement and modernization products from your TRADELINE wholesaler or your distributor, refer to the TRADELINE catalog or price sheets for complete ordering number, or specify—

1. Order number.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

- 1. Your local Honeywell Residential and Building Controls Division Sales Office. (Check white pages of your phone rectory.)
 - Residential and Building Controls Division Customer Satisfaction Honeywell Inc. 1885 Douglas Drive North Minneapolis, Minnesota 55422-4386 (612) 542-7500

In Canada—Honeywell Limited/Honeywell Limitee, 740 Ellesmere Drive, Scarborough, Ontario M1P 2V9. International Sales and Service Offices in all principal cities of the world.

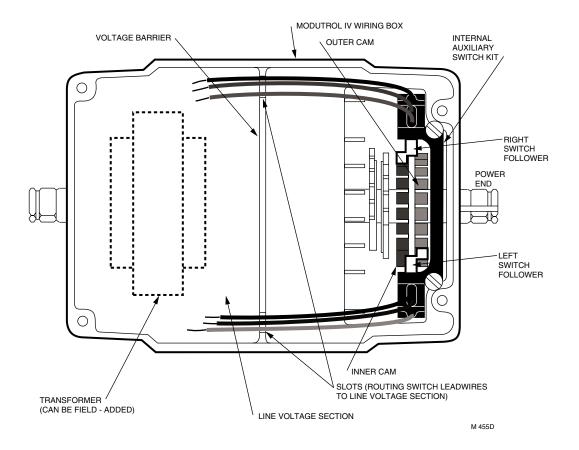
International Sales Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

- 8. Lower the switch assembly into place and tighten the two mounting screws, making sure the switch followers are properly aligned with the inner and outer cams in the motor. The 220736A includes only the switch for the outer cam.
- 9. Run all switch leadwires through slots to line voltage section (at auxiliary end of motor), where connections to auxiliary equipment should be made with solderless connectors.



The auxiliary switches in the Series 91 low and medium torque TRADELINE Modutrol IV Motors operate opposite to those in the Modutrol motors listed in Tables 1 and 2, page 4. When wiring the switches, connect the new switches to the controlled equipment as shown in the appropriate table.

Fig. 1—Position of auxiliary switch(es) in motor.



3

TABLE 1—AUXILIARY SWITCH LEADWIRE COLORS FOR LOW AND MEDIUM TORQUE SERIES 91 MOTORS WITH ONE AUXILIARY SWITCH.

	Factory-Instal	Replace with 220736A,B Leadwire				
Left Auxiliary Switch N.O.	Yellow	W/Yellow				Orange
N.C.	Blue	W/Blue				Purple
Com.	Red	W/Red				Red
Right Auxiliary Switch N.O.			B/Yellow		B/Yellow	B/Orange
N.C.			B/Blue	B/Yellow		B/Purple
Com.			B/Red	B/Red	B/Red	B/Red
Motor	M9171B1012 M9171B1020 M9174B1019 M9174B1027 M9174B1035 M934D1026 M934D1059	M734D1053 M9164B M934A1565	M7161B M7164B M734J1072 M934A1433	M9171B1004 M9174B1001 M9174B1043 M934D1000	M9172W M9175W M975B1021 M975B1039	M9164D1009 M9174D1007 M9175D1014 Motors with 220736A,B Auxiliary Switch Kit

Wiring should be NEC Class 1 unless power supply meets Class 2 requirements. Tape unused leads. Make certain the current draw of the external circuit is less than contact rating of switch.

color = solid color wire.

TABLE 2—AUXILIARY SWITCH LEADWIRE COLORS FOR LOW AND MEDIUM TORQUE SERIES 91 MOTORS WITH TWO AUXILIARY SWITCHES.

	Factory-Instal	led Auxiliary Switch	Leadwire Color ^{a,b}		Replace with 220736A,B Leadwire
Left Auxiliary Switch N.O. N.C.	Yellow Blue	W/Blue	W/Yellow W/Blue	W/Yellow	Orange Purple
Com.	Red	W/Red	W/Red	W/Red	Red
Right Auxiliary Switch N.O.	B/Blue		B/Yellow	B/Yellow	B/Orange
N.C.	B/Yellow	B/Yellow	B/Blue	D/D 1	B/Purple
Com.	B/Red	B/Red	B/Red	B/Red	B/Red
Motor	M9171C M9174C1017 M9174C1025 M9174C1041 M934D1034 M934D1042	M9174C1009 M9174C1033 M934D1018	M9161C M9164C M9172C M934A1243 M934A1250 M934A1268	M9175Y M975B1047 M975B1062	M9164D1009 M9174D1007 M9175D1014 Motors with 220736A,B Auxiliary

Wiring should be NEC Class 1 unless power supply meets Class 2 requirements. Tape unused leads. Make certain the current draw of the external circuit is less than contact rating of switch.

color = solid color wire.

W/color= white wire with colored tracer.
 B/color=black wire with colored tracer.

b W/color= white wire with colored tracer. B/color=black wire with colored tracer.

TABLE 3—AUXILIARY SWITCH LEADWIRE COLORS FOR ALL MOTOR SERIES EXCEPT LOW AND MEDIUM TORQUE SERIES 91 (See Tables 1 and 2).

		E/	I a4-11-3			eno Colah		Replace with 220736A,B Leadwire
Left Auxiliary Switch	N.O. N.C. Com.	Blu	llow	Blu	e low	re Color"	W/Yellow W/Blue W/Red	Purple Orange Red
Right Auxiliary Switch	N.O. N.C. Com.				Blue Yellow Red	B/Yellow B/Red		B/Purple B/Orange B/Red
Motor		M445A M644E M644L M845A M845E M941C M944B M944C M944G M944H M955C M955E	M4182B M4185B M4185E M4186H M4186L M6161B M6184B M6191B M6194E M6282B M6282E M6284B M6285B M6284B M6285B M6284B M8182B M8182B M8185B M9181B M9184E M9185E M9185E M9184E	M644D M744T M744Y M745T M745Y M941D M944E M944E M944S M945C M945D M954B M955F	M6181F M6182F M6184F M6194F M6281F M6284C M6284F M6285C M7281C M7281Q M7284C M7284Q M7285C M7285Q M9181C M9182C M9184C M9184F M9184F M9184F M9184F	M9182W	M8175B M865B	M6184D1035 M6194D1017 M6284D1000 M6285A1005 M6285A1013 M6294D1008 M8185D1006 M9184D1013 M9184D1021 M9185D1004 M9194D1003 Motors with 220736A,B Auxiliary Switch Kit

a Wiring should be NEC Class 1 unless power supply meets Class 2 requirements. Tape unused leads. Make certain the current draw of the external circuit is less than contact rating of switch.

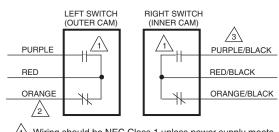
5

WIRING

Disconnect all power supplies to de-energize auxiliary switch before servicing.

All wiring must comply with local codes and ordinances. Do not exceed switch ratings of auxiliary switches.

Fig. 2—Auxiliary Switch Wiring Diagram.



Wiring should be NEC Class 1 unless power supply meets Class 2 requirements. Tape unused leads. Make certain the current draw of the external circuit is less than contact rating of switch.

2 Switch leads on 220736A single-switch kit same as left switch above.

Colors are tracers on black background.

M418C

b W/color = white wire with colored tracer.
 B/color = black wire with colored tracer.
 color = solid color wire.

Setting and Adjustments

AUXILIARY SWITCHES

The auxiliary switches are spdt switches that are actuated by adjustable cams. The cams are factory mounted on the motor shaft at the power end of the motor. The settings of the cams determine the point in motor shaft rotation at which the auxiliary equipment will be switched on or off. These cams can be set to actuate the switches at any angle within the stroke of the motor. All TRADELINE motors include auxiliary switch cams which permit installation of this auxiliary switch kit (220736A, 220736B).

NOTE: When the slow-rise portion of the cam is used, the switching differential is approximately 10° of rotation. When the fast-rise portion of the cam is used, the switch differential is approximately 1° of rotation. Do not use the fast rise portion of the cam if fast cycling of auxiliary equipment is undesirable.

AUXILIARY SWITCH ADJUSTMENT PROCEDURE



WARNING

FIRE OR EXPLOSION HAZARD CAN CAUSE SEVERE INJURY OR DEATH

When auxiliary switches control combustion equipment, incorrect wiring of the switches can allow the burner to come on at high fire. Check auxiliary switch wiring and cam adjustment before turning on the system. Watch the controlled equipment through one complete cycle. Shut the system down immediately if switches do not correctly sequence the equipment.

/ CAUTION

- Live circuits are exposed during auxiliary switch adjustment procedure. Always turn off power before adjusting switch cams.
- 2. Do not turn motor shaft by hand or with wrench as damage to the motor can result.

NOTE: The following instructions are for normally closed motors (motor shaft rotates clockwise, as viewed from the power end of the motor, on an increase in signal).

Exact adjustment procedures vary for different TRADELINE motor models. Find your model on the following list. Then proceed to the correct section for that model.

Motor Model	Section
M8185	A
M9164, M9174, M9175	В
M9184, M9185, M9194	С
M6284, M6294	D
M6285	E
M6184, M6194	F

Additional instructions may also be found in the Auxiliary Switch Adjustment section in the specification sheet included with the Modutrol IV Motor.

Review Table 4 and Fig. 3 before adjusting cams. Table 4 applies to both the left and right switches.

TABLE 4—AUXILIARY SWITCH POSITION WITH MOTOR SHAFT ROTATED TO EITHER SIDE OF AUXILIARY SWITCH OPERATING POINT, AS VIEWED FROM POWER END.

			Auxiliary Switch Contact Positions			
			N.O. Contact ^a		N.C. Contac	et ^a
			(Red and Pu	rple Leads)	(Red and O	range Leads)
			Shaft	Shaft	Shaft	Shaft
			Rotated	Rotated	Rotated	Rotated
			ccw of	cw of	ccw of	cw of
			Switch	Switch	Switch	Switch
Motor	Cam	Switch	Operating	Operating	Operating	Operating
Туре	Arrangement	Differential	Point	Point	Point	Point
TRADELINE,	Red inner	1°	Closed	Open	Open	Closed
low and	cam, blue					
medium	outer cam	10°	Open	Closed	Closed	Open
torque, series 91						
All other	Blue inner	1°	Open	Closed	Closed	Open
TRADELINE	cam, red					
motors	outer cam	10°	Closed	Open	Open	Closed

a cw = clockwise

ccw = counterclockwise

To turn the cams, insert small screwdriver (1/8" or 3 mm blade) through wiring box into slot on cam and move the screwdriver at the top. Refer to Fig. 3. Each division on the cam represents 15° of motor rotation.

A) Two position motors (M8185):

- 1. Turn off power and remove cover of wiring box.
- 2. Determine amount of shaft rotation, in degrees, desired before switch is energized.
- 3. Note the position of the cam slots and, with screwdriver, rotate the cam to the desired position for switch

action. Each division on the cam represents 15° of motor rotation. Therefore, if 60° of motor rotation is desired before switch operates, rotate the cam 4 divisions from the reference point.

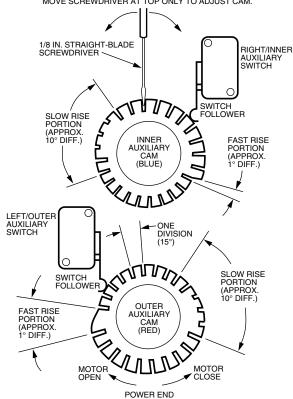
- 4. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
- 5. Turn on power and check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions). If necessary repeat steps 3 and 5 until correct switching action is obtained.
 - 6. Replace cover of wiring box.

Fig.. 3—Auxiliary switch adjustment.

M9164D1009, M9174D1007 AND M9175D1014 MOVE SCREWDRIVER AT TOP ONLY TO ADJUST CAM. 1/8 IN. STRAIGHT-BLADE SCREWDRIVER \ RIGHT/INNER AUXILIARY SWITCH ALLIAN S SLOW RISE PORTION (APPROX. SWITCH FOLLOWER 10° DIFF.) INNER AUXILIARY FAST RISE PORTION (APPROX. DIFF.) ONE DIVISION (15°) LEFT/OUTEF AUXILIARY SWITCH SLOW RISE PORTION SWITCH FOLLOWER OUTER FAST RISE PORTION (APPROX. AUXILIARY DIFF.) MOTOR OPEN CLOSE POWER END

NOTE: Cams shown separately to provide better view of inner cam.

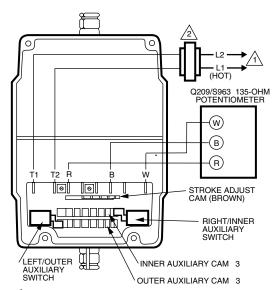
ALL OTHER TRADELINE MOTORS MOVE SCREWDRIVER AT TOP ONLY TO ADJUST CAM.



NOTE: Cams shown separately to provide better view of inner cam.

7 63-2228—2

Fig. 4—Auxiliary switch adjustment for low and medium torque, Series 91 motors.



Power supply. Provide disconnect means and overload protection as required.

2 Transformer may be external or internal.

3 Cam arrangement varies as shown in table.

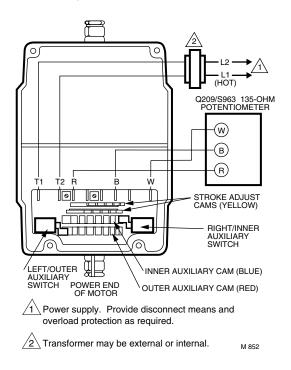
MOTOR MODEL	INNER CAM	OUTER CAM
M9164D1009, M9164D1007, M9175D1014	Red	Blue
ALL OTHER TRADELINE MOTORS	Blue	Red

M 851

B) Low and Medium Torque, Series 91 Modulating (Proportional) Motors (M9164, M9174, M9175):

- 1. Turn off power and remove cover of wiring box.
- 2. Disconnect controller from motor.
- 3. Connect 135 ohm potentiometer to terminals R,W, and B as shown in Fig. 4. Restore power.
- 4. Adjust potentiometer to drive motor to the position where auxiliary equipment is to be switched.
- 5. For switch differential of 1°, check continuity of auxiliary switch N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam counterclockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam clockwise until N.O. (Red to Purple) contacts open.
- 6. For switch differential of 10°, the cams must be rotated with screwdriver approximately 180° prior to setting switching action. Refer to Fig. 3. Check continuity of the N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam clockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam counterclockwise until N.O. (Red to Purple) contacts open.

Fig. 5—Auxiliary switch adjustment for high and extra high torque Series 91 motors.

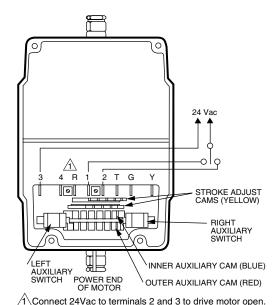


- 7. Check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions) using the potentiometer. If necessary repeat steps 5 and 7 for 1° differential, or 6 and 7 for 10° differential until correct switching action is obtained.
 - 8. Turn off power and disconnect potentiometer.
- 9. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
 - 10. Reconnect controller and power supply to motor.
 - 11. Replace cover of wiring box. Turn on power.

C) High and Extra High Torque, Series 91 Modulating (Proportional) Motors (M9184, M9185, M9194):

- 1. Turn off power and remove cover of wiring box.
- 2. Disconnect controller from motor.
- 3. Connect 135 ohm potentiometer to terminals R,W, and B as shown in Fig. 5. Restore power.
- 4. Adjust potentiometer to drive motor to the position where auxiliary equipment is to be switched.
- 5. For switch differential of 1°, check continuity of auxiliary switch N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam clockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam counterclockwise until N.O. (Red to Purple) contacts open.
- 6. For switch differential of 10°, the cams must be rotated with screwdriver approximately 180° prior to setting switching action. Refer to Fig. 3. Check continuity of the N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:

Fig. 6—Auxiliary switch adjustment for M6284, M6294 motors



a. If contacts are open, rotate cam counterclockwise until N.O. (Red to Purple) contacts close.

Connect 24Vac to terminals 3 and 1 to drive motor closed.

M 853

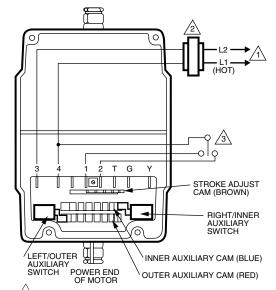
- b. If contacts are closed, rotate cam clockwise until N.O. (Red to Purple) contacts open.
- 7. Check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions) using the potentiometer. If necessary repeat steps 5 and 7 for 1° differential, or 6 and 7 for 10° differential until correct switching action is obtained.
 - 8. Turn off power and disconnect potentiometer.
- 9. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
- 10. Reconnect controller and power supply to motor.
- 11. Replace cover of wiring box. Turn on power.

D) Series 62 Floating Control with Feedback Non-Spring Return Motors (M6284, M6294):

- 1. Turn off power and remove cover of wiring box.
- 2. Disconnect controller from motor.
- 3. Connect 24 Vac power through switches or directly to quick-connect terminals to drive motor to position where auxiliary equipment is to be switched. Refer to Fig. 6. Turn on power. Connecting power to terminals 2 and 3 will drive motor in the open direction, connecting power to terminals 3 and 1 will drive the motor in the closed direction. To stop the motor at desired position, remove power from motor. Motor will remain at this position until power is restored.
- 4. For switch differential of 1°, check continuity of auxiliary switch N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam clockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam counterclockwise until N.O. (Red to Purple) contacts open.

- 5. For switch differential of 10°, the cams must be rotated with screwdriver approximately 180° prior to setting the switching action. Refer to Fig. 3. Check continuity of the N.O. (Red to Purple) contacts and rotate cams as follows:
 - a. If contacts are open, rotate cam counterclockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam clockwise until N.O. (Red to Purple) contacts open.
- 6. Check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions). If necessary repeat steps 4 and 6 for 1° differential, or 5 and 6 for 10° differential until correct switching action is obtained.
- 7. Disconnect power from switches or quick-connect terminals.
- 8. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
 - 9. Reconnect controller and power supply to motor.
- 10. Replace cover of wiring box.

Fig. 7—Auxiliary switch adjustment for M6285 motors.



Power supply. Provide disconnect means and overload protection as required.

2 Transformer may be external or internal mount.

Connect terminal 4 to terminal 2 to drive motor open.
Connect terminal 4 to terminal 1 to drive motor closed.

E) Series 62 Floating Control with Feedback Spring Return Motors (M6285):

- 1. Turn off power and remove cover of wiring box.
- 2. Disconnect controller from motor.

9

3. Connect 24 Vac power and switches to drive motor to position where auxiliary equipment is to be switched. Refer to Fig. 7. Turn on power. Jumpering terminals 4 and 2 will drive motor in the open direction, jumpering terminals 4 and 1 will drive the motor in the closed direction. To stop the motor at desired position, disconnect jumpers. Motor will remain at this position until connection is restored. Removing power at this point will cause motor to spring return to closed position.

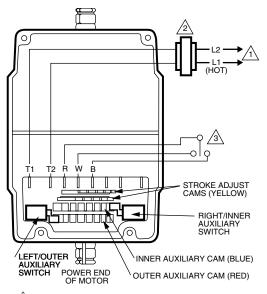
SETTINGS AND ADJUSTMENTS

- 4. For switch differential of 1°, check continuity of auxiliary switch N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam clockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam counterclockwise until N.O. (Red to Purple) contacts open.
- 5. For switch differential of 10°, the cams must be rotated with screwdriver approximately 180° prior to setting the switching action. Refer to Fig. 3. Check continuity of the N.O. (Red to Purple) contacts and, with screwdriver, rotate cam as follows:
 - a. If contacts are open, rotate cam counterclockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam clockwise until N.O. (Red to Purple) contacts open.
- 6. Check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions). If necessary, repeat steps 4 and 6 for 1° differential, or 5 and 6 for 10° differential until correct switching action is obtained.
- 7. Disconnect power from switches or quick-connect terminals.
- 8. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
 - 9. Reconnect controller and power supply to motor.
- 10. Replace cover of wiring box.

F) Series 61 Floating Control Non-Spring Return Motors (M6184, M6194):

- 1. Turn off power and remove cover of wiring box.
- 2. Disconnect controller from motor.
- 3. Connect 24 Vac power and switches to drive motor to position where auxiliary equipment is to be switched. Refer to Fig. 8. Turn on power. Jumpering terminals R and B will drive motor in the open direction, jumpering terminals R and W will drive the motor in the closed direction. To stop the motor at desired position, disconnect jumpers. Motor will remain at this position until connection is restored.
- 4. For switch differential of 1°, check continuity of auxiliary switch N.O. (Red to Purple) contacts and rotate cams as follows:
 - a. If contacts are open, rotate cam clockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam counterclockwise until N.O. (Red to Purple) contacts open.

Fig. 8—Auxiliary switch adjustment for M6184, M6194 motors.



1 Power supply. Provide disconnect means and overload protection as required.

2 Transformer may be external or internal mounted.

(2) Connect R-B to drive motor open. Connect R-W to drive motor closed.

- 5. For switch differential of 10°, the cams must be rotated approximately 180° prior to setting the switching action. Refer to Fig. 3. Check continuity of the N.O. (Red to Purple) contacts and rotate cams as follows:
 - a. If contacts are open, rotate cam counterclockwise until N.O. (Red to Purple) contacts close.
 - b. If contacts are closed, rotate cam clockwise until N.O. (Red to Purple) contacts open.
- 6. Check for proper switch differential and switching of auxiliary equipment by driving the motor through full stroke (in both directions). If necessary repeat steps 4 and 6 for 1° differential, or 5 and 6 for 10° differential until correct switching action is obtained.
 - 7. Disconnect 24 V power and switches.
- 8. Connect auxiliary equipment to auxiliary switch leads. See Wiring section.
 - 9. Reconnect controller and power supply to motor.
 - 10. Replace cover of wiring box.

Checkout



!\ WARNING

FIRE OR EXPLOSION HAZARD CAN CAUSE SEVERE INJURY OR DEATH

When auxiliary switches control combustion equipment, incorrect wiring of the switches can allow the burner to come on at high fire. Check auxiliary switch wiring and cam adjustment before turning on the system. Watch the controlled equipment through one complete cycle. Shut the system down immediately if switches do not correctly sequence the equipment.

Use the controller to run the motor fully open and then fully closed. Make sure that the auxiliary equipment starts and stops at the desired points in motor rotation. When checkout is complete, return the controller to the desired setting.

11 63-2228—2

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